<110>   Radtkey, Ray
         Held, Lance C.
         Wallace, Bruce
         Menge, Karen L
         Canter, David

<120>   METHODS AND APPARATUS FOR SCREENING AND DETECTING MULTIPLE
         GENETIC MUTATIONS

<130>   US 313C2

<140>   to be assigned
<141>   2003-07-24

<150>   US 60/398,992
<151>   2002-07-26

<160>   133

<170>   PatentIn version 3.2

<210>   1
<211>   29
<212>   DNA
<213>   Human

<220>
<221>   misc_feature
<223>   biotinylated exon 11

<400>   1
tcaactgtgg ttaaagcaat agtgtgata   29

<210>   2
<211>   33
<212>   DNA
<213>   Human

<220>
<221>   misc_feature
<223>   biotinylated exon 4

<400>   2
tttatccctt acttgtacca gctcactacc taa   33

<210>   3
<211>   29
<212>   DNA
<213>   Human

<220>
<221>   misc_feature
<223>   biotinylated exon 21

<400>   3
ttcacaaggg actccaaata ttgctgtag   29

<210> 4
<211> 32
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> biotinylated exon 7

<400> 4
attatggtac attacctgta ttttgtttat tg   32

<210> 5
<211> 33
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> biotinylated exon 10

<400> 5
gatgggtttt atttccagac ttcacttcta atg   33

<210> 6
<211> 25
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> biotinylated exon 19

<400> 6
aattgtgaaa ttgtctgcca ttctt   25

<210> 7
<211> 27
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> biotinylated exon 16

<400> 7
gatatagcaa ttttggatga ccttctg   27

<210> 8
<211> 35
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> biotinylated exon 20

<400> 8
aatataattt agttgccttt tttctggcta agtcc   35

<210> 9
<211> 27
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> biotinylated exon 12

<400> 9
tcaagaggta aaatgcaatc tatgatg   27

<210> 10
<211> 29
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> biotinylated exon 13

<400> 10
tgtctgtaaa ctgatggcta acaaaacta   29

<210> 11
<211> 25
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> biotinylated exon 14b

<400> 11
cactaccata atgcttggga gaaat   25

<210> 12
<211> 25
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> biotinylated exon 3

<400> 12
atgcaactta ttggtcccac ttttt   25

<210> 13
<211> 28
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> biotinylated exon 5

<400> 13
tgtcaagccg tgttctagat aaaataag   28

<210> 14
<211> 26
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> biotinylated intron 19

<400> 14
gttaaacagt gttgaatttg gtgcta   26

<210> 15
<211> 23
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> biotinylated exon 9

<400> 15
aagaactacc ttgcctgctc cag   23

<210> 16
<211> 31
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> Exon 11

<400> 16
cagaaacaga atataaagca atagagaaat g   31

<210> 17
<211> 26
<212> DNA
<213> Human

```
<220>
<221>  misc_feature
<223>  Exon 4

<400>  17
tcaccaaagc agtacagcct ctctta                                              26


<210>  18
<211>  26
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  Exon 21

<400>  18
ccatatttct tgatcactcc actgtt                                              26


<210>  19
<211>  24
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  Exon 7

<400>  19
cagaactgaa actgactcgg aagg                                                24


<210>  20
<211>  26
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  Exon 10

<400>  20
atataatttg ggtagtgtga agggtt                                              26


<210>  21
<211>  19
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  Exon 19

<400>  21
ccctgagggc cagatgtca                                                      19
```

<210> 22
<211> 27
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> Exon 20

<400> 22
cctatatgtc acagaagtga tcccatc   27

<210> 23
<211> 27
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> Exon 12

<400> 23
gaactgttta aggcaaatca tctacac   27

<210> 24
<211> 20
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> Exon 13

<400> 24
ttccccaaac tctccagtct   20

<210> 25
<211> 29
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> Exon 14b

<400> 25
aggtgaagat gttagaaaaa aaatcaact   29

<210> 26
<211> 29
<212> DNA
<213> Human

```
<220>
<221>  misc_feature
<223>  Exon 3

<400>  26
cacaaaaatg catatagtta tgtgataca                                    29


<210>  27
<211>  25
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  Exon 5

<400>  27
aactccgcct ttccagttgt ataat                                       25


<210>  28
<211>  26
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  Intron 19

<400>  28
gacttgtcat cttgatttct ggagac                                      26


<210>  29
<211>  31
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  Exon 9

<400>  29
agatcatgtc ctctagaaac cgtatgctat a                                31


<210>  30
<211>  29
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  Exon 16

<400>  30
tcacatttgc ttttgttatt gttttttta                                   29
```

<210> 31
<211> 18
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> Universal Reporter, Red

<400> 31
ctcaatgttc ggactcag   18

<210> 32
<211> 18
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> Universal Reporter, Green

<400> 32
tgtcaagcga tatactgc   18

<210> 33
<211> 37
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> dI507, Wild-type

<400> 33
aagatgatat tttctttaac tgagtccgaa cattgag   37

<210> 34
<211> 38
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> Screening dI507 Mutant

<400> 34
aaagatattt tctttaattt gcagtatatc gcttgaca   38

<210> 35
<211> 37
<212> DNA
<213> Human

```
<220>
<221>  misc_feature
<223>  dI507 Mutant

<400>  35
aaagatattt tctttaatgg cagtatatcg cttgaca                              37


<210>  36
<211>  37
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  I507V, Mutant

<400>  36
aagacgatat tttctttaac tgagtccgaa cattgag                              37


<210>  37
<211>  37
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  I506V, Mutant

<400>  37
aagatgacat tttctttaac tgagtccgaa cattgag                              37


<210>  38
<211>  32
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  F508C, Mutant

<400>  38
ctgagtccga acattgaggg aaacaccaca ga                                   32


<210>  39
<211>  32
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  1717-1, wild-type

<400>  39
ctgagtccga acattgagga tgtcctatta cc                                   32
```

<210> 40
<211> 32
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> 1717-1, Mutant

<400> 40
gcagtatatc gcttgacaga tgtcttatta cc   32

<210> 41
<211> 33
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> Screening 1717-1, Mutant

<400> 41
gcagtatatc gcttgacaag atgtcttatt acc   33

<210> 42
<211> 32
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> 3659delC, Wild-type

<400> 42
ctgagtccga acattgagtt gacttggtag gt   32

<210> 43
<211> 33
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> Screening 3659delC, Mutant

<400> 43
gcagtatatc gcttgacatt gacttgtagg ttt   33

<210> 44
<211> 32
<212> DNA
<213> Human

```
<220>
<221>  misc_feature
<223>  3659delC, Mutant

<400>  44
gcagtatatc gcttgacatt gacttgtagg tt                              32


<210>  45
<211>  32
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  G542X, wild-type

<400>  45
ctgagtccga acattgagct tctccaagaa ct                              32


<210>  46
<211>  32
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  G542X, Mutant

<400>  46
gcagtatatc gcttgacacc ttctcaaaga ac                              32


<210>  47
<211>  30
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  R553X, wild-type

<400>  47
ctgagtccga acattgagtg ctcgttgacc                                30


<210>  48
<211>  32
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  R553X, Mutant

<400>  48
gcagtatatc gcttgacatt gctcattgac ct                              32
```

```
<210>  49
<211>  31
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  Screening R553X, Mutant

<400>  49
gcagtatatc gcttgacata attcttgctc a                              31


<210>  50
<211>  32
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  G85E, wild-type

<400>  50
ctgagtccga acattgagag attccataga ac                             32


<210>  51
<211>  33
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  G85E, Mutant

<400>  51
gcagtatatc gcttgacaaa gatttcatag aac                            33


<210>  52
<211>  33
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  I148T, wild-type

<400>  52
ctgagtccga acattgagca tcacattgga atg                            33


<210>  53
<211>  32
<212>  DNA
<213>  Human
```

```
<220>
<221>  misc_feature
<223>  I148T, Mutant

<400>  53
gcagtatatc gcttgacaat cacactggaa tg                              32


<210>  54
<211>  31
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  R117H, wild-type

<400>  54
ctgagtccga acattgaggg aacgctctat c                               31


<210>  55
<211>  32
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  R117H, Mutant

<400>  55
gcagtatatc gcttgacagg aacactctat cg                              32


<210>  56
<211>  33
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  711+1, wild-type

<400>  56
ctgagtccga acattgaggg tacatacttc atc                             33


<210>  57
<211>  33
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  711+1, Mutant

<400>  57
gcagtatatc gcttgacaag gtacataatt cat                             33
```

```
<210>  58
<211>  32
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  R334W, Wild-type

<400>  58
ctgagtccga acattgagca tcctccggaa aa                                    32


<210>  59
<211>  32
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  R334W, Mutant

<400>  59
gcagtatatc gcttgacaca tcctctggaa aa                                    32


<210>  60
<211>  32
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  1078delT, Wild-type

<400>  60
ctgagtccga acattgaggt tctttgtggt gt                                    32


<210>  61
<211>  32
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  1078delT, Mutant

<400>  61
gcagtatatc gcttgacagt tcttgtggtg tt                                    32


<210>  62
<211>  31
<212>  DNA
<213>  Human
```

```
<220>
<221>  misc_feature
<223>  Screening 1078delT, Mutant

<400>  62
gcagtatatc gcttgacagt tcttgtggtg t                                    31


<210>  63
<211>  28
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  A455E, Wild-type

<400>  63
ctgagtccga acattgagtg gcggttgc                                        28


<210>  64
<211>  30
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  A455E, Mutant

<400>  64
gcagtatatc gcttgacatt ggaggttgct                                      30


<210>  65
<211>  31
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  delta-508, Wild-type

<400>  65
ctgagtccga acattgagga aacaccaaag a                                    31


<210>  66
<211>  33
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  delta-508, Mutant

<400>  66
gcagtatatc gcttgacaat aggaaacacc gat                                  33
```

<210> 67
<211> 31
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> G551D, Wild-type

<400> 67
ctgagtccga acattgagcg ttgacctcca c   31

<210> 68
<211> 32
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> G551D, Mutant

<400> 68
gcagtatatc gcttgacacg ttgatctcca ct   32

<210> 69
<211> 31
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> Screening G551D, Mutant

<400> 69
tctccactca gttgcagtat atcgcttgac a   31

<210> 70
<211> 32
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> R560T, Wild-type

<400> 70
ctgagtccga acattgagta ttcaccttgc ta   32

<210> 71
<211> 31
<212> DNA
<213> Human

```
<220>
<221>  misc_feature
<223>  R560T, Mutant

<400>  71
gcagtatatc gcttgacaat tcacgttgct a                              31


<210>  72
<211>  34
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  2184delA, Wild-type

<400>  72
ctgagtccga acattgagat tgttttttttg tttc                          34


<210>  73
<211>  34
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  2184delA, Mutant

<400>  73
gcagtatatc gcttgacaat tgtttttttgt ttct                          34


<210>  74
<211>  31
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  2789+5, Wild-type

<400>  74
ctgagtccga acattgagaa gtgagtattc c                              31


<210>  75
<211>  33
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  2789+5, Mutant

<400>  75
gcagtatatc gcttgacaaa agtgaatatt cca                            33
```

<210> 76
<211> 31
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> 3120+1, wild-type

<400> 76
ctgagtccga acattgagac atacctggat g   31

<210> 77
<211> 31
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> 3120+1, Mutant

<400> 77
gcagtatatc gcttgacaac atatctggat g   31

<210> 78
<211> 29
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> R1162, wild-type

<400> 78
ctgagtccga acattgagct cggctcaca   29

<210> 79
<211> 31
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> R1162, Mutant

<400> 79
gcagtatatc gcttgacaga ctcagctcac a   31

<210> 80
<211> 32
<212> DNA
<213> Human

```
<220>
<221>  misc_feature
<223>  N1303K, Wild-type

<400>  80
ctgagtccga acattgagga tccaagtttt tt                                    32


<210>  81
<211>  32
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  N1303K, Mutant

<400>  81
gcagtatatc gcttgacaat ccaacttttt tc                                    32


<210>  82
<211>  30
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  R347P, Wild-type

<400>  82
ctgagtccga acattgagca ttgttctgcg                                       30


<210>  83
<211>  29
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  R347P, Mutant

<400>  83
gcagtatatc gcttgacaat tgttctgcc                                        29


<210>  84
<211>  27
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  Stabilizer, R347P

<400>  84
catggcggtc actcggcaat ttccctg                                          27
```

```
<210>    85
<211>    32
<212>    DNA
<213>    Human


<220>
<221>    misc_feature
<223>    1898+1, Wild-type

<400>    85
ctgagtccga acattgagtg aaaggtatgt tc                                    32


<210>    86
<211>    34
<212>    DNA
<213>    Human


<220>
<221>    misc_feature
<223>    1898+1, Mutant

<400>    86
gcagtatatc gcttgacatt gaaagatatg ttct                                  34


<210>    87
<211>    33
<212>    DNA
<213>    Human


<220>
<221>    misc_feature
<223>    621+1, Wild-type

<400>    87
ctgagtccga acattgagat aagaaggtaa tac                                   33


<210>    88
<211>    35
<212>    DNA
<213>    Human


<220>
<221>    misc_feature
<223>    621+1, Mutant

<400>    88
gcagtatatc gcttgacata taagaagtta atact                                 35


<210>    89
<211>    31
<212>    DNA
<213>    Human
```

```
<220>
<221>  misc_feature
<223>  W1282X, Wild-type

<400>  89
ctgagtccga acattgagac agtggaggaa a                                    31


<210>  90
<211>  32
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  W1282X, Mutant

<400>  90
gcagtatatc gcttgacaac agtgaaggaa ag                                   32


<210>  91
<211>  30
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  3849+10kb, Wild-type

<400>  91
ctgagtccga acattgagaa atggcgagta                                      30


<210>  92
<211>  32
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  3849+10kb, Mutant

<400>  92
gcagtatatc gcttgacaaa aatggtgagt aa                                   32


<210>  93
<211>  34
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  T-tract, 5T

<400>  93
ctgagtccga acattgagtg tgtttttaac aggg                                 34
```

```
<210>  94
<211>  36
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  T-tract, 7T

<400>  94
gcagtatatc gcttgacatg tgtttttttta acaggg                            36


<210>  95
<211>  37
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  T-tract, 9T

<400>  95
gcagtatatc gcttgacatg tgtttttttt taacagg                            37


<210>  96
<211>  32
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  Amplicon Confirmation, Exon 12

<400>  96
gcagtatatc gcttgacatg aaaggtatgt tc                                 32


<210>  97
<211>  32
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  Amplicon Confirmation, Exon 21

<400>  97
gcagtatatc gcttgacaga tccaagtttt tt                                 32


<210>  98
<211>  32
<212>  DNA
<213>  Human
```

```
<220>
<221>  misc_feature
<223>  Amplicon Confirmation, Exon 7

<400>  98
gcagtatatc gcttgacagt tctttgtggt gt                                32


<210>  99
<211>  28
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  Amplicon Confirmation, Exon 9

<400>  99
gcagtatatc gcttgacatg gcggttgc                                     28


<210>  100
<211>  32
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  Amplicon Confirmation, Exon 14b

<400>  100
gcagtatatc gcttgacaaa agtgagtatt cc                                32


<210>  101
<211>  56
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  3849+10kb Blocker

<400>  101
gttgcagtat taaaatggyg agtaagacac cctgaaagga aatgttctat tcatgg       56


<210>  102
<211>  53
<212>  DNA
<213>  Human


<220>
<221>  misc_feature
<223>  delta-507 Blocker screening run

<400>  102
gatattttct ttaatggtgc caggcataat ccaggaaaac tgagaacaga atg          53
```

```
<210>    103
<211>    45
<212>    DNA
<213>    Human


<220>
<221>    misc_feature
<223>    delta-508 Blocker screening run

<400>    103
tgctttgatg acgcttctgt atctatattc atcataggaa acacc                          45


<210>    104
<211>    45
<212>    DNA
<213>    Human


<220>
<221>    misc_feature
<223>    delta-507/delta-508 wild-type Blocker

<400>    104
tattcatcat aggaaacacc aaagatgata ttttctttaa tggtg                          45


<210>    105
<211>    45
<212>    DNA
<213>    Human


<220>
<221>    misc_feature
<223>    delta-507 Blocker, Mutant

<400>  . 105
ctatattcat cataggaaac accaaagata ttttctttaa tggtg                          45


<210>    106
<211>    45
<212>    DNA
<213>    Human


<220>
<221>    misc_feature
<223>    delta-508 Blocker, Mutant

<400>    106
ctatattcat cataggaaac accgatgata ttttctttaa tggtg                          45


<210>    107
<211>    59
<212>    DNA
<213>    Human
```

<220>
<221> misc_feature
<223> 621+1 Blocker

<400> 107
tatgtttagt ttgatttata agaagktaat acttccttgc acaggcccca tggcacata   59

<210> 108
<211> 39
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> 2184delA Blocker, Wild-type

<400> 108
gtctgtttaa aagattgttt ttttgtttct gtccaggag   39

<210> 109
<211> 38
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> 2184delA Blocker, Mutant

<400> 109
gtctgtttaa aagattgttt tttgtttctg tccaggag   38

<210> 110
<211> 55
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> 1898+1 Blocker

<400> 110
gatgttttaa cagaaaaaga aatatttgaa agrtatgttc tttgaatacc ttact   55

<210> 111
<211> 40
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> N1303K Blocker

<400> 111
cactgttcat agggatccaa stttttttcta aatgttccag   40

<210> 112
<211> 45
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> W1282X Blocker

<400> 112
caataacttt gcaacagtgr aggaaagcct ttggagtgat accac   45

<210> 113
<211> 48
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> 711+1 Blocker

<400> 113
gtgcctaaaa gattaaatca ataggtacat amttcatcaa atttgttc   48

<210> 114
<211> 41
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> R117H Blocker

<400> 114
cggataacaa ggaggaacrc tctatcgcga tttatctagg c   41

<210> 115
<211> 44
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> I148T Blocker

<400> 115
gccatttttg gccttcatca caytggaatg cagatgagaa tagc   44

<210> 116
<211> 44
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> G85E Blocker

<400> 116
ccttacccct aaatataaaa agattycata gaacataaat ctcc   44

<210> 117
<211> 46
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> 1162 Blocker

<400> 117
caatgaactt aaagactcrg ctcacagatc gcatctgaaa taaaaa   46

<210> 118
<211> 35
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> 3659delC Blocker, Wild-type

<400> 118
gtatggtttg gttgacttgg taggtttacc ttctg   35

<210> 119
<211> 34
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> 3659delC Blocker, Mutant

<400> 119
gtatggtttg gttgacttgt aggtttacct tctg   34

<210> 120
<211> 45
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> 3120+1 Blocker

<400> 120
cggtacttat ttttacatay ctggatgaag tcaaatatgg taaga   45

<210> 121
<211> 53
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> 2789+5 Blocker

<400> 121
gtgctgtggc tccttggaaa gtgartattc catgtcctat tgtgtagatt gtg   53

<210> 122
<211> 45
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> A455E Blocker

<400> 122
gaggacagtt gttggmggtt gctggatcca ctggagcagg caagg   45

<210> 123
<211> 45
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> R334W Blocker

<400> 123
ctaatcaaag gaatcatcct cyggaaaata ttcaccacca tctca   45

<210> 124
<211> 45
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> 1078delT Blocker, Wild-type

<400> 124
gctcagcctt cttcttctca gggttctttg tggtgttttt atctg   45

<210> 125
<211> 44
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> 1078delT Blocker, Mutant

<400> 125
gctcagcctt cttcttctca gggttcttgt ggtgtttta tctg   44

<210> 126
<211> 51
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> R347P Blocker

<400> 126
ttctgcattg ttctgcscat ggcggtcact cggcaatttc cctgggctgt a   51

<210> 127
<211> 40
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> 1717-1 Blocker

<400> 127
gagatgtcyt attaccaaaa atagaaaatt agagagtcac   40

<210> 128
<211> 40
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> G542X Genotyping Blocker

<400> 128
actttctcma agaactatat tgtctttctc tgcaaacttg   40

<210> 129
<211> 36
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> G551D Screening Blocker

<400> 129
ttgacctcca ctcagtgtga ttccaccttc tccaac   36

<210> 130
<211> 42
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> G551D/R553X/R560T Blocker

<400> 130
tattcacctt gctaaagaaa ttcttgctcg ttgacctcca ct   42

<210> 131
<211> 50
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> G542X/G551D/R553/X Blocker

<400> 131
ttgctcgttg acctccactc agtgtgattc caccttctcc aagaactata   50

<210> 132
<211> 45
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> R553/X Blocker

<400> 132
caataattag ttattcacct tgctaaagaa attcttgctc gttga   45

<210> 133
<211> 35
<212> DNA
<213> Human

<220>
<221> misc_feature
<223> R560T Blocker

<400> 133
cttgctagac caataattag ttattcacyt tgcta   35